**Finding Area and Circumference Extreme Challenge!!!**

1. A) This is the wall in Teyan’s bedroom and here is a hole in the wall where the end of his hockey stick went through. He hasn’t show his parents the hole yet because he doesn’t want to get into trouble. His wall has a length of 14 feet and a height of 8 feet. The circle has a radius of 0.02 feet.

B) What is the circumference of the circular hole in the wall?

1. Payton was making sugar cookies in foods class. She rolled out a rectangular piece of dough that measured 30 cm by 40 cm. Then she cut out 10 round cookies, each had a diameter of 5 cm. What was the area of the scraps of cookie dough (the left over bits)

Use the IDEAL solution to your problems to help you solve this question.

b) What was the circumference of one of the cookies?

1. Joel loves to draw pictures…just loves it! Last night before bed he drew a picture of a snowman using three circles. The bottom circle had a radius of 6.2 cm. The middle circle had a Diameter of 4.3 cm and the top of the snowman had a circle with a radius of 2.7 cm. What was the total area of the snowman’s body? (PLEASE use the IDEAL method for solving problems)
2. Meagan and Brooke like to go swimming twice a week and then order pizza. They ordered a triple cheese pizza that had a diameter of 95 cm. Meagan ate ¼ of the pizza, Brooke ate ¼ of the pizza and Brooke’s mom also ate ¼ of the pizza.
3. What fraction of the pizza was left over?
4. What was the area of the left over piece of pizza?
5. Create your own extreme challenge question. (Hint: to make it an extreme challenge doesn’t mean using big extreme numbers…it means thinking about multiple circles, using a cut out or using different shapes. Another way a question can be made extreme is the way David did, and make the question so you have to work backwards. If you can make a question extreme by using small numbers then you show that you really understand the concept to a deep level.)